CIVIL AIM CONSULTANTS & ENGINEERS

(Building Geo-Tech & Highway Materials Testing Laboratory)

An ISO 9001-2015 Certified Company

NABL Accredited As Per ISO/IEC 17025:2017 Laboratory

Job No.: CACE/BBMP/MSV/W.No.14/2021-22

Date :11.03.2022

ATTERBERG LIMITS TEST FOR WMM

Client : **Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.**

Agency : **M/S M S V Construction Company, Contractor, Bangalore.**

Name of Work : Entrustment of work "Asphalting to roads at Ashok nagar and Surrounding area in ward no.14 Bagalagunte," BBMP, Bangalore.

IS Code: : IS 2720(Part 5):1985

Date of Testing : 09.03.2022 to 11.03.2022

Material Type : Wet Mix Macadam

Sl. No.	Particulars	Test Results	Requirement as per MORTH 5th edition Cl.406.2.1.2
1	Liquid Limit	19.50	-
2	Plasticity Index, %	Non Plastic	6.0% Maximum.

Note:

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For CIVIL AIM CONSULTANTS & ENGINEERS

Authorised Signatory

No. 01, Satvika Nilaya, Opp. Widia Poorna Prajna School,
Ramaiah Layout, Nagasandra, Bangalore - 560 073.
Ph: 9591618639, GSTIN: 29CNWPD9510K1ZB, Email: civilaimconsultants@gmail.com

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IS Code: : IS 2720(Part 5):1985

Date of Testing : 09.03.2022 to 11.03.2022

Material Type : Wet Mix Macadam

Sl. No.	Particulars	Test Results	Requirement as per MORTH 5th edition Cl.406.2.1.2
1	Liquid Limit	20.50	-
2	Plasticity Index, %	Non Plastic	6.0% Maximum.

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IS Code: : IS 2720(Part 5):1985

Date of Testing : 09.03.2022 to 11.03.2022

Material Type : Wet Mix Macadam

Sl. No.	Particulars	Test Results	Requirement as per MORTH 5th edition Cl.406.2.1.2
1	Liquid Limit	21.00	-
2	Plasticity Index, %	Non Plastic	6.0% Maximum.

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Material Type : Wet Mix Macadam

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IS Code: : IS 2720(Part 5):1985
Date of Testing : 10.03.2022 to 12.03.2022
Material Type : Wet Mix Macadam

Sl. No.	Particulars	Test Results	Requirement as per MORTH 5th edition Cl.406.2.1.2
1	Liquid Limit	20.50	-
2	Plasticity Index, %	Non Plastic	6.0% Maximum.

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IS Code: : IS 2720(Part 5):1985

Date of Testing : 10.03.2022 to 12.03.2022

Material Type : Wet Mix Macadam

Sl. No.	Particulars	Test Results	Requirement as per MORTH 5th edition Cl.406.2.1.2
1	Liquid Limit	19.50	-
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DETERMINATION OF FLAKINESS INDEX & ELONGATION INDEX OF COARSE AGGREGATES

Client	**Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.**
Agency	**M/S M S V Construction Company, Contractor, Bangalore.**
Name of Work	Entrustment of work "Asphalting to roads at Ashok nagar and Surrounding area in ward no.14 Bagalagunte," BBMP, Bangalore.
BIS code:	IS 2386(Part 1) 1963 (RA 2011)
Type of Mix	Wet Mix Macadam
Date of Testing	09.03.2022

Sl no	Test	1	2	Requirements as per MORTH 5th edition table no 400.12
1	Flakiness Index %	11.20	11.50	Combined Flakiness & Elongation index Max 35%
2	Elongation Index %	12.70	13.10	
	Combined Flakiness & Elongation index	23.90	24.60	

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BIS code:	IS 2386(Part 1) 1963 (RA 2011)
Type of Mix	Wet Mix Macadam
Date of Testing	09.03.2022

Sl no	Test	1	2	Requirements as per MORTH 5th edition table no 400.12
1	Flakiness Index %	11.90	12.10	Combined Flakiness & Elongation index Max 35%
2	Elongation Index %	13.20	13.60	
	Combined Flakiness & Elongation index	25.10	25.70	

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Type of Mix	Wet Mix Macadam
Date of Testing	10.03.2022

Sl no	Test	1	2	Requirements as per MORTH 5th edition table no 400.12
1	Flakiness Index %	12.10	11.90	Combined Flakiness & Elongation index Max 35%
2	Elongation Index %	13.60	13.20	
	Combined Flakiness & Elongation index	25.70	25.10	

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BIS code:	IS 2386(Part 1) 1963 (RA 2011)
Type of Mix	Wet Mix Macadam
Date of Testing	10.03.2022

Sl no	**Test**	**1**	**2**	**Requirements as per MORTH 5th edition table no 400.12**
1	Flakiness Index %	11.30	11.40	Combined Flakiness & Elongation index Max 35%
2	Elongation Index %	12.50	12.90	
	Combined Flakiness & Elongation index	23.80	24.30	

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	Combined Flakiness & Elongation index	25.60	25.30	

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Sl no	**Test**	**1**	**2**	**Requirements as per MORTH 5th edition table no 400.12**
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Type of Mix	Wet Mix Macadam
Date of Testing	12.03.2022

Sl no	Test	1	2	Requirements as per MORTH 5th edition table no 400.12
1	Flakiness Index %	12.60	12.50	Combined Flakiness & Elongation index Max 35%
2	Elongation Index %	13.10	13.20	
	Combined Flakiness & Elongation index	25.70	25.70	

Note:

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For CIVIL AIM CONSULTANTS & ENGINEERS

Authorised Signatory

13-3-2022

No. 01, Satvika Nilaya, Opp. Widia Poorna Prajna School,
Ramaiah Layout, Nagasandra, Bangalore - 560 073.
Ph: 9591618639, GSTIN: 29CNWPD9510K1ZB, Email: civilaimconsultants@gmail.com

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Job No.: CACE/BBMP/MSV/W.No.14/2021-22 Date : 12.03.2022

DETERMINATION OF FLAKINESS INDEX & ELONGATION INDEX OF COARSE AGGREGATES

Client	**Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.**
Agency	**M/S M S V Construction Company, Contractor, Bangalore.**
Name of Work	Entrustment of work "Asphalting to roads at Ashok nagar and Surrounding area in ward no.14 Bagalagunte," BBMP, Bangalore.
BIS code:	IS 2386(Part 1) 1963 (RA 2011)
Type of Mix	Wet Mix Macadam
Date of Testing	12.03.2022

Sl no	Test	1	2	Requirements as per MORTH 5th edition table no 400.12
1	Flakiness Index %	12.10	11.90	Combined Flakiness & Elongation index Max 35%
2	Elongation Index %	13.60	13.20	
	Combined Flakiness & Elongation index	25.70	25.10	

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Job No.: CACE/BBMP/MSV/W.No.14/2021-22

Date : 12.03.2022

DETERMINATION OF FLAKINESS INDEX & ELONGATION INDEX OF COARSE AGGREGATES

Client	**Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.**
Agency	**M/S M S V Construction Company, Contractor, Bangalore.**
Name of Work	Entrustment of work "Asphalting to roads at Ashok nagar and Surrounding area in ward no.14 Bagalagunte," BBMP, Bangalore.
BIS code:	IS 2386(Part 1) 1963 (RA 2011)
Type of Mix	Wet Mix Macadam
Date of Testing	12.03.2022

Sl no	Test	1	2	Requirements as per MORTH 5th edition table no 400.12
1	Flakiness Index %	11.30	11.40	Combined Flakiness & Elongation index Max 35%
2	Elongation Index %	12.50	12.90	
	Combined Flakiness & Elongation index	23.80	24.30	

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Job No.: CACE/BBMP/MSV/W.No.14/2021-22 Date: 09.03.2022

Aggregate Impact Value

Client	**Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.**
Agency	**M/S M S V Construction Company, Contractor, Bangalore.**
Name of the Work	Entrustment of work "Asphalting to roads at Ashok nagar and Surrounding area in ward no.14 Bagalagunte," BBMP, Bangalore.
IS Code	IS 2386 (Part 4):1963(RA 2011)
Type of Mix	Wet Mix macadam
Date of Testing	09.03.2022

Sl No.	Details	Test No. 1	Test No. 2	Average
1	Total weight of aggregate sample filling the cylindrical measure = W_1 g	380	379	
2	Weight of agregate passing 2.36 mm sieve after the test = W_2 g	88	89	
3	Weight of aggregate retained 2.36 mm sieve after the test = W_3 g	292	290	
4	Aggregate Impact value = percent fines 100* (W_2/W_1)%	23.16	23.48	**23.32**

Comments:

→ Maximum allowable Aggregate Impact value for Wet mix Macadam is 30%(As per MORTH Specication table 400.12)

Note:

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Job No.: CACE/BBMP/MSV/W.No.14/2021-22 Date: 09.03.2022

Aggregate Impact Value

Client	**Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.**
Agency	**M/S M S V Construction Company, Contractor, Bangalore.**
Name of the Work	Entrustment of work "Asphalting to roads at Ashok nagar and Surrounding area in ward no.14 Bagalagunte," BBMP, Bangalore.
IS Code	IS 2386 (Part 4):1963(RA 2011)
Type of Mix	Wet Mix macadam
Date of Testing	09.03.2022

Sl No.	Details	Test No. 1	Test No. 2	Average
1	Total weight of aggregate sample filling the cylindrical measure = W_1 g	382	382	
2	Weight of agregate passing 2.36 mm sieve after the test = W_2 g	87	88	
3	Weight of aggregate retained 2.36 mm sieve after the test = W_3 g	295	294	
4	Aggregate Impact value = percent fines 100* (W_2/W_1)%	22.77	23.04	**22.91**

Comments:

→ Maximum allowable Aggregate Impact value for Wet mix Macadam is 30%(As per MORTH Specication table 400.12)

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Job No.: CACE/BBMP/MSV/W.No.14/2021-22

Date: 10.03.2022

Aggregate Impact Value

Client	**Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.**
Agency	**M/S M S V Construction Company, Contractor, Bangalore.**
Name of the Work	Entrustment of work "Asphalting to roads at Ashok nagar and Surrounding area in ward no.14 Bagalagunte," BBMP, Bangalore.
IS Code	IS 2386 (Part 4):1963(RA 2011)
Type of Mix	Wet Mix macadam
Date of Testing	10.03.2022

Sl No.	Details	Test No. 1	Test No. 2	Average
1	Total weight of aggregate sample filling the cylindrical measure = W_1 g	380	381	
2	Weight of agregate passing 2.36 mm sieve after the test = W_2 g	86	88	
3	Weight of aggregate retained 2.36 mm sieve after the test = W_3 g	294	293	
4	Aggregate Impact value = percent fines 100* (W_2/W_1)%	22.63	23.10	**22.86**

Comments:

→ Maximum allowable Aggregate Impact value for Wet mix Macadam is 30%(As per MORTH Specication table 400.12)

Note:

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Job No.: CACE/BBMP/MSV/W.No.14/2021-22 Date: 10.03.2022

Aggregate Impact Value

Client	**Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.**
Agency	**M/S M S V Construction Company, Contractor, Bangalore.**
Name of the Work	Entrustment of work "Asphalting to roads at Ashok nagar and Surrounding area in ward no.14 Bagalagunte," BBMP, Bangalore.
IS Code	IS 2386 (Part 4):1963(RA 2011)
Type of Mix	Wet Mix macadam
Date of Testing	10.03.2022

Sl No.	Details	Test No.		Average
		1	2	
1	Total weight of aggregate sample filling the cylindrical measure = W_1 g	381	382	
2	Weight of agregate passing 2.36 mm sieve after the test = W_2 g	85	86	
3	Weight of aggregate retained 2.36 mm sieve after the test = W_3 g	296	296	
4	Aggregate Impact value = percent fines 100* (W_2/W_1)%	22.31	22.51	**22.41**

Comments:

→ Maximum allowable Aggregate Impact value for Wet mix Macadam is 30%(As per MORTH Specication table 400.12)

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Job No.: CACE/BBMP/MSV/W.No.14/2021-22 Date: 11.03.2022

Aggregate Impact Value

Client	**Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.**
Agency	**M/S M S V Construction Company, Contractor, Bangalore.**
Name of the Work	Entrustment of work "Asphalting to roads at Ashok nagar and Surrounding area in ward no.14 Bagalagunte," BBMP, Bangalore.
IS Code	IS 2386 (Part 4):1963(RA 2011)
Type of Mix	Wet Mix macadam
Date of Testing	11.03.2022

Sl No.	Details	Test No. 1	Test No. 2	Average
1	Total weight of aggregate sample filling the cylindrical measure = W_1 g	380	384	
2	Weight of agregate passing 2.36 mm sieve after the test = W_2 g	86	88	
3	Weight of aggregate retained 2.36 mm sieve after the test = W_3 g	294	296	
4	Aggregate Impact value = percent fines 100* (W_2/W_1)%	22.63	22.92	**22.77**

Comments:

→ Maximum allowable Aggregate Impact value for Wet mix Macadam is 30%(As per MORTH Specication table 400.12)

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Aggregate Impact Value

Client	**Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.**
Agency	**M/S M S V Construction Company, Contractor, Bangalore.**
Name of the Work	Entrustment of work "Asphalting to roads at Ashok nagar and Surrounding area in ward no.14 Bagalagunte," BBMP, Bangalore.
IS Code	IS 2386 (Part 4):1963(RA 2011)
Type of Mix	Wet Mix macadam
Date of Testing	11.03.2022

Sl No.	Details	Test No. 1	Test No. 2	Average
1	Total weight of aggregate sample filling the cylindrical measure = W_1 g	378	380	
2	Weight of agregate passing 2.36 mm sieve after the test = W_2 g	84	86	
3	Weight of aggregate retained 2.36 mm sieve after the test = W_3 g	294	294	
4	Aggregate Impact value = percent fines 100* (W_2/W_1)%	22.22	22.63	**22.43**

Comments:

→ Maximum allowable Aggregate Impact value for Wet mix Macadam is 30%(As per MORTH Specication table 400.12)

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Aggregate Impact Value

Client	**Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.**
Agency	**M/S M S V Construction Company, Contractor, Bangalore.**
Name of the Work	Entrustment of work "Asphalting to roads at Ashok nagar and Surrounding area in ward no.14 Bagalagunte," BBMP, Bangalore.
IS Code	IS 2386 (Part 4):1963(RA 2011)
Type of Mix	Wet Mix macadam
Date of Testing	12.03.2022

Sl No.	Details	Test No. 1	Test No. 2	Average
1	Total weight of aggregate sample filling the cylindrical measure = W_1 g	381	382	
2	Weight of agregate passing 2.36 mm sieve after the test = W_2 g	86	88	
3	Weight of aggregate retained 2.36 mm sieve after the test = W_3 g	295	294	
4	Aggregate Impact value = percent fines 100* (W_2/W_1)%	22.57	23.04	**22.80**

Comments:

→ Maximum allowable Aggregate Impact value for Wet mix Macadam is 30%(As per MORTH Specication table 400.12)

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Aggregate Impact Value

Client	**Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.**
Agency	**M/S M S V Construction Company, Contractor, Bangalore.**
Name of the Work	Entrustment of work "Asphalting to roads at Ashok nagar and Surrounding area in ward no.14 Bagalagunte," BBMP, Bangalore.
IS Code	IS 2386 (Part 4):1963(RA 2011)
Type of Mix	Wet Mix macadam
Date of Testing	12.03.2022

Sl No.	Details	Test No. 1	Test No. 2	Average
1	Total weight of aggregate sample filling the cylindrical measure = W_1 g	380	381	
2	Weight of agregate passing 2.36 mm sieve after the test = W_2 g	86	88	
3	Weight of aggregate retained 2.36 mm sieve after the test = W_3 g	294	293	
4	Aggregate Impact value = percent fines 100* (W_2/W_1)%	22.63	23.10	**22.86**

Comments:

→ Maximum allowable Aggregate Impact value for Wet mix Macadam is 30%(As per MORTH Specication table 400.12)

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Aggregate Impact Value

Client	**Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.**
Agency	**M/S M S V Construction Company, Contractor, Bangalore.**
Name of the Work	Entrustment of work "Asphalting to roads at Ashok nagar and Surrounding area in ward no.14 Bagalagunte," BBMP, Bangalore.
IS Code	IS 2386 (Part 4):1963(RA 2011)
Type of Mix	Wet Mix macadam
Date of Testing	12.03.2022

Sl No.	Details	Test No.		Average
		1	2	
1	Total weight of aggregate sample filling the cylindrical measure = W_1 g	380	384	
2	Weight of agregate passing 2.36 mm sieve after the test = W_2 g	86	88	
3	Weight of aggregate retained 2.36 mm sieve after the test = W_3 g	294	296	
4	Aggregate Impact value = percent fines 100* (W_2/W_1)%	22.63	22.92	**22.77**

Comments:

→ Maximum allowable Aggregate Impact value for Wet mix Macadam is 30%(As per MORTH Specication table 400.12)

Note:

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JobNo: CACE/BBMP/MSV/W.No.14/2021-22 Date : 30.03.2022

TEST RESULTS OF AGGREGATE SHAPE TEST (Flakiness & Elongation)

Client : **Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.**

Agency : **M/S M S V Construction Company, Contractor, Bangalore.**

Name of work : Entrustment of work "Asphalting to roads at Ashok nagar and Surrounding area in ward no.14 Bagalagunte," BBMP, Bangalore.

BIS Code : IS 2386 Part (1):1963

Date of Test : 30.03.2022

Type of Mix : Dense Graded Bituminous Macadam

Sl.No.	Flakiness Index Value(%)	Elongation Index Value(%)	Total(Combined Flakiness and Elongation)(%)	Requirements
1	12.40	13.20	25.60	Maximum allowable Combined Flakiness and Elongation Indices for Dense Graded Bituminous Macadam is 35% as per Table 500.8 MORTH Specification.
2	12.60	13.30	25.90	

Note:

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Job No.: CACE/BBMP/MSV/W.No.14/2021-22

Date: 30.03.2022

Aggregate Gradation Test

Client	**Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.**
Agency	**M/S M S V Construction Company, Contractor, Bangalore.**
Name of the Work	Entrustment of work "Asphalting to roads at Ashok nagar and Surrounding area in ward no.14 Bagalagunte," BBMP, Bangalore.
BIS Code	IS 2386(Part 1):1963(RA 2011)
Sample I / D	Hot mix Plant, Bangalore.
Type of Mix	Dense Graded Bituminous Macadam
Date of Testing	30.03.2022

Total Weight of Sample: **10000** gm

SIEVE SIZE, mm	Weight Retained, gm	% Retained	Cummulative % Retained	% Passing	Requirement as per MORTH table 500.10	Remarks
37.50	0	0.0	0	100	100	Gradation satisfies Grade-II MORTH specification
26.50	716	7.2	7.16	92.84	90 - 100	
19.00	1264	12.6	19.80	80.20	71 - 95	
13.20	1380	13.8	33.60	66.40	56 - 80	
4.75	2510	25.1	58.70	41.30	38 - 54	
2.36	1095	11.0	69.65	30.35	28 - 42	
0.300	1315	13.2	82.80	17.20	7 - 21	
0.075	1160	11.6	94.40	5.60	2 - 8	

Total Weight of Sample: **10000** gm

SIEVE SIZE, mm	Weight Retained, gm	% Retained	Cummulative % Retained	% Passing	Requirement as per MORTH table 500.10	Remarks
37.5	0	0.0	0	100	100	Gradation satisfies Grade-II MORTH specification
26.5	684	6.8	6.84	93.16	90 - 100	
19	1419	14.2	21.03	78.97	71 - 95	
13.2	1140	11.4	32.43	67.57	56 - 80	
4.75	2419	24.2	56.62	43.38	38 - 54	
2.360	1165	11.7	68.27	31.73	28 - 42	
0.300	1319	13.2	81.46	18.54	7 - 21	
0.075	1179	11.8	93.25	6.75	2 - 8	

Note:

1. This test report should not be reproduced except in full, without written approval of the laboratory
2. The results indicated above are based on the tests carried out on the samples collected at the site.
3. Any Query regarding the report must be reported within 30 days from the date of testing.

For CIVIL AIM CONSULTANTS & ENGINEERS

Authorised Signatory

No. 01, Satvika Nilaya, Opp. Widia Poorna Prajna School,
Ramaiah Layout, Nagasandra, Bangalore - 560 073.
Ph: 9591618639, GSTIN: 29CNWPD9510K1ZB, Email: civilaimconsultants@gmail.com

CIVIL AIM CONSULTANTS & ENGINEERS
(Building Geo-Tech & Highway Materials Testing Laboratory)
An ISO 9001-2015 Certified Company
NABL Accredited As Per ISO/IEC 17025:2017 Laboratory

JobNo: CACE/BBMP/MSV/W.No.14/2021-22 Date 30.03.2022

TEST RESULTS OF AGGREGATE IMPACT VALUE

Client : **Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.**

Agency : **M/S M S V Construction Company, Contractor, Bangalore.**

Name of work : Entrustment of work "Asphalting to roads at Ashok nagar and Surrounding area in ward no.14 Bagalagunte," BBMP, Bangalore.

Source / Location : Hot Mix Plant, Bangalore

BIS Code : IS 2386 Part (4):1963

Type of Mix : Dense Graded Bituminous Macadam

Date of test 30.03.2022

Sl No.	Details	Trial No.		Average
		1	2	
1	Total weight of aggregate sample filling the cylindrical measure = W1 g	385	382	
2	Weight of agregate passing 2.36 mm sieve after the test = W2 g	86	89	
3	Weight of aggregate retained 2.36 mm sieve after the test = W3 g	299	293	
5	Aggregate Impact value = percent fines 100* (W2/W1) percent	22.34	23.30	**22.82**

Comments:

→ Maximum allowable Aggregate Impact value for Dense Graded Bituminous Macadam is 27% (Table 500-8 of MORTH specification)

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